

FIG. 1

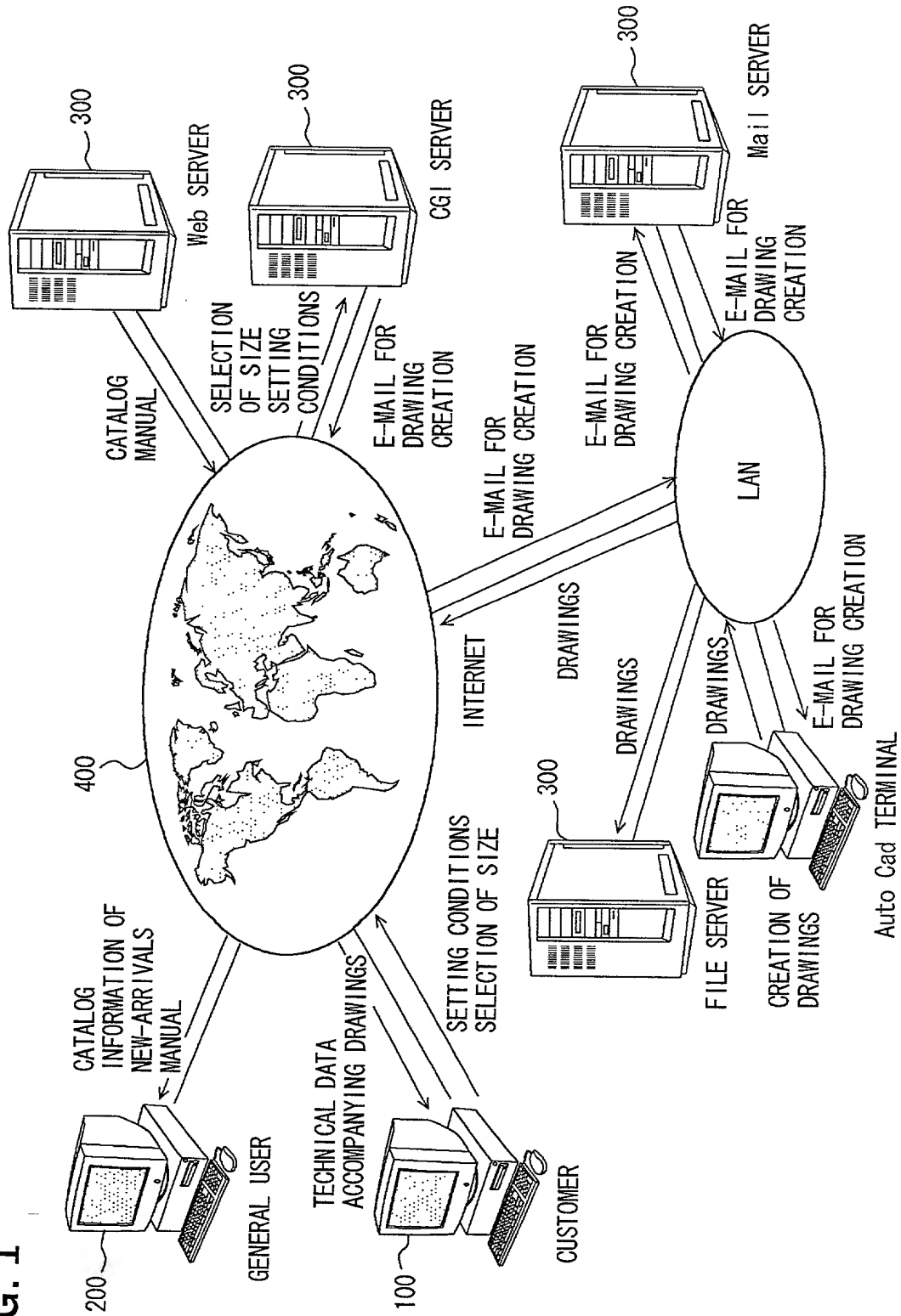


FIG. 2

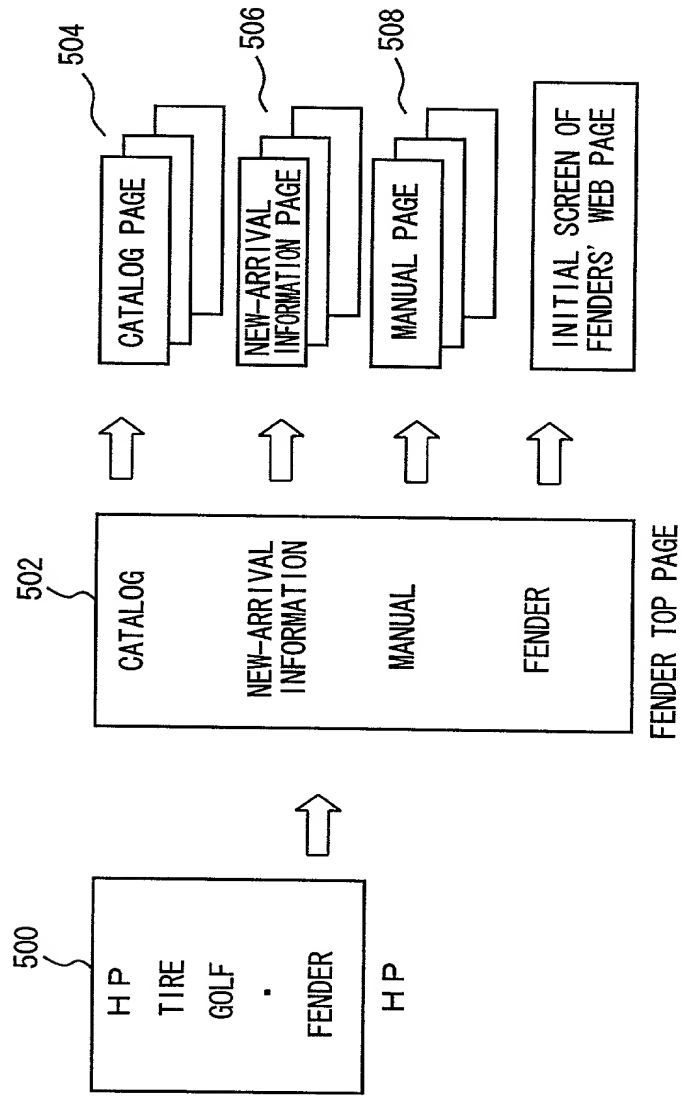


FIG. 3

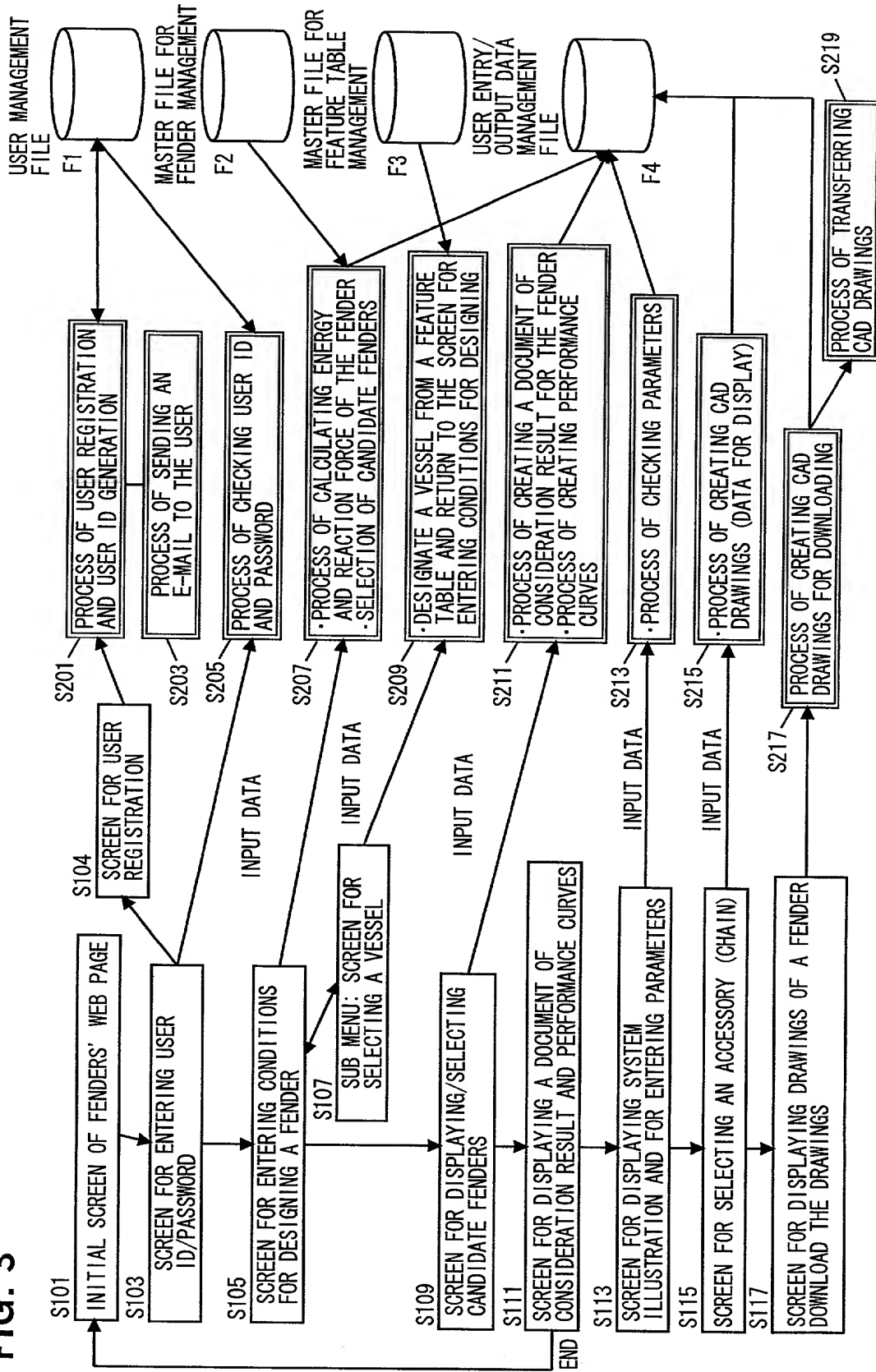


FIG. 4 INITIAL SCREEN

DESCRIPTION OF THE SYSTEM

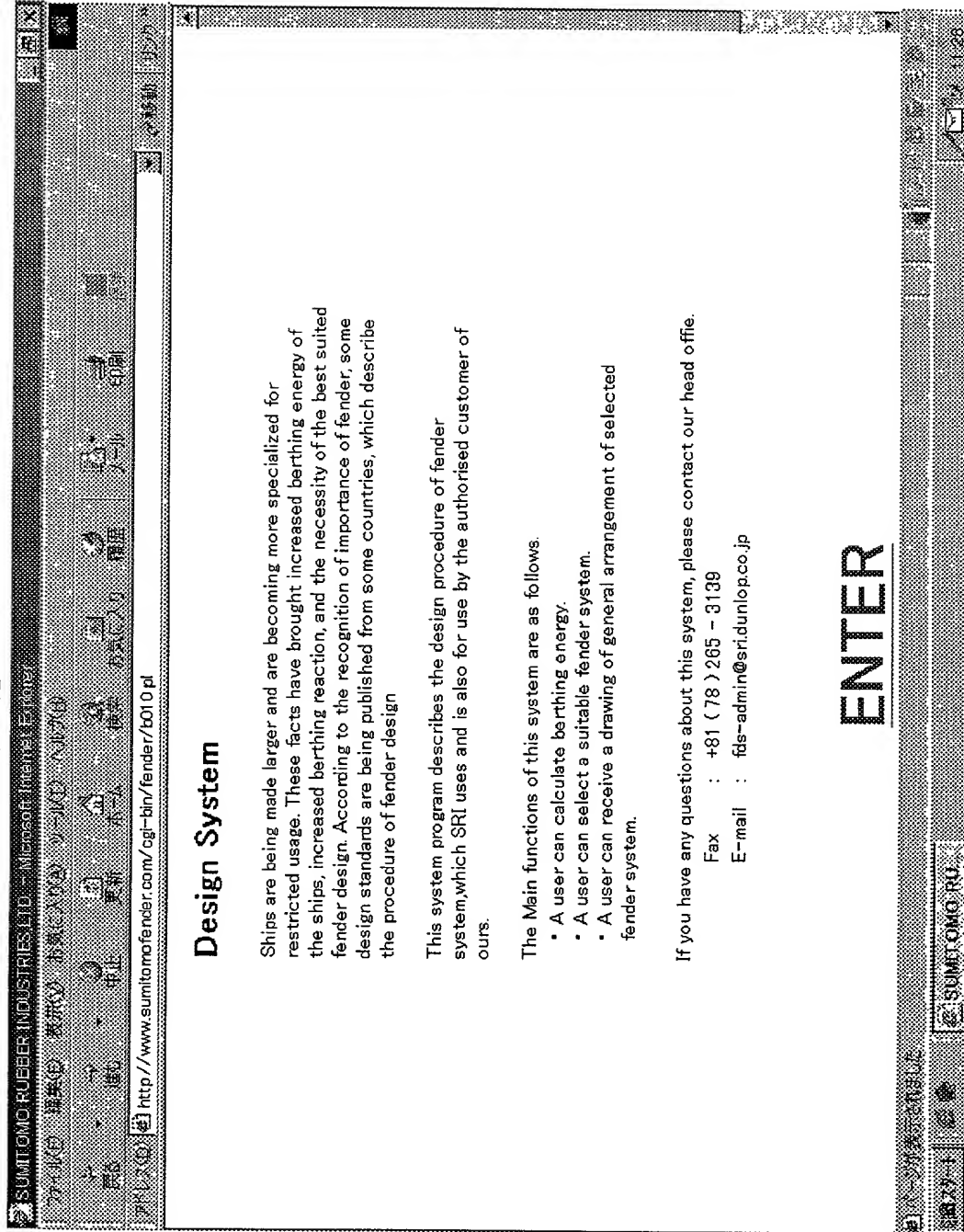


FIG. 5 SCREEN FOR ENTERING USER ID AND PASSWORD

SUMITOMO RUBBER INDUSTRIES LTD. - Microsoft Internet Explorer

http://www.sumitomo-rubber.com/cgi-bin/fender/fo0260.pl

Sumitomo Rubber Industries Ltd.

User's registration is necessary in order to utilize this system.  
Please click [User Registration]. If you are a new user.  
We will inform you of your UserID and Password by e-mail.

[ User Registration ]

[ Explanation for use ]

I'm already registered

User ID

Password

Login

Sumitomo Rubber Industries Ltd.

Sumitomo Rubber Industries Ltd.

FIG. 6 SCREEN FOR USER REGISTRATION

Sumitomo Rubber Industries Ltd. - Microsoft Internet Explorer

http://www.sumitomofender.com/designsystem/img/b021.html

New User Entry

Please enter your registration information in the field provided so that we can keep you updated about the program.  
After registration we will send you your 'user-id' by e-mail.

Name	<input type="text"/>
Company	<input type="text"/>
Category	<input type="text" value="Port authority"/>
Category ( others )	<input type="text"/>
Title	<input type="text"/>
Country	<input type="text"/>
Tel	<input type="text"/>
Fax	<input type="text"/>
E-mail	<input type="text"/>
Password	<input type="password"/>
Password (Retype)	<input type="password"/>

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FIG. 7  
(THE TOP HALF OF) SCREEN FOR ENTERING CONDITIONS FOR  
DESIGNING FENDER

SUMITOMO RUBBER INDUSTRIES LTD. - Microsoft Internet Explorer

http://www.sumitomofender.com/cgi-bin/fender/b030.pl

Project

Please input the following information for administering this system.

Kind of berth ☒ New Berth ☐ Existing Berth

Project Name VANTERM PROJECT

Port VANTERM

Country CANADA

Constructor VANCOUVER PILE DRIVING

Consultant WESTMAR

Design Stage ☐ Plan ☐ Feasibility Study ☒ Detail Design

NEXT->

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FIG. 8  
(THE BOTTOM HALF OF) SCREEN FOR ENTERING CONDITIONS  
FOR DESIGNING FENDER

SUMITOMO RUBBER INDUSTRIES LTD. - Microsoft Internet Explorer

http://www.sumitomofender.com/cgi-bin/fender/1050.pl

Design criteria

*Technical standards for port and harbour facilities in Japan*

Dimensions of vessels are one of the most important factors in fender design.  
In the case when the dimensions can be obtained, the calculation should be done by the data.  
If they can't, such dimensions should be assumed by the kind and the size of the vessel.  
There are some proposals about the relations of data.  
Please obtain the figure according to one of them and input it.

Type of vessel

Weight : unit ( t ) The data with(\*) are the necessary data to calculate the berthing energy.

Gross Tonnage ( GRT )  Deadweight Tonnage ( DWT )

Displacement Tonnage\* ( DT )  reference [ JS ][ BS ][ EAU ]

Dimensions : unit ( m ) The data with(\*) are the necessary data to calculate the berthing energy.

Length overall ( Loa )  Length between perpendicular\* ( Lpp )

Breadth\* ( B )  Depth ( D )  Full load draft\* ( d )

Hull presure : unit ( kN/m<sup>2</sup> )  Add

Another type and size vessel ?  
If yes, click on "Add" again

Delete	Type of vessel	GRT	DWT	DT	Loa	Lpp	B	D	d	Hull pressure
<input type="checkbox"/>	General cargo ship (smaller than 10000DWT)	4000	5000	5500	100	105	20	12	7	198

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FIG. 9

SCREEN FOR SELECTING VESSEL (SUB MENU)

HTTP/1.0 未検出 - Microsoft Internet Explorer

アドレスバー: http://www.sumitomo-fender.com/cgi-bin/fender/r/ref\_eau.td&Anchor=EAL Anchor

メニュー: 戻る, 進む, 検索, 印刷, 設定, ヘルプ

検索:

検索ボタン:

検索結果: 1件見つかりました

検索条件: 船名: EAU 1990, 船種: 5, 船長: 295, 船幅: 35.5, 船深: 11.5

検索結果:

Ship dimensions

According to EAU 1990 "5 Ship Dimensions and Loading of Waterfront Structures".

The following average ship dimensions may be used in preliminary designs and in the design and layout of fenders and dolphins.

Passenger vessels

Tonnage	Carrying Capacity	Displacement G	Overall Length	Length Between Perps	Beam	Draft
GRT	DWT	kN	m	m	m	M
80 000	---	750 000	315	295	35.5	11.5
70 000	---	650 000	315	295	34.0	11.0
60 000	---	550 000	310	290	32.5	10.5
50 000	---	450 000	300	280	31.0	10.5
40 000	---	350 000	265	245	29.5	10.0
30 000	---	300 000	230	210	28.0	10.0

Bulk Cargo Freighters (Ore, Oil, Coal, Grain, etc.)

Tonnage	Carrying Capacity	Displacement G	Overall Length	Length Between Perps	Beam	Draft
GRT	DWT	kN	m	m	m	M
---	450 000	5 240 000	424	404	68.5	26.0
---	420 000	4 900 000	418	398	67.0	24.5
---	380 000	4 450 000	407	386	64.5	24.0
---	365 000	4 280 000	343	328	63.5	23.0
---	340 000	4 000 000	398	378	62.5	23.0
---	300 000	3 550 000	385	364	59.5	22.0
---	275 000	3 260 000	376	355	57.5	21.5
---	250 000	3 000 000	367	346	55.5	21.0

アドレスバー: http://www.sumitomo-fender.com/cgi-bin/fender/r/ref\_eau.td&Anchor=EAL Anchor

メニュー: 戻る, 進む, 検索, 印刷, 設定, ヘルプ

検索:

検索ボタン:

検索結果: 1件見つかりました

検索条件: 船名: EAU 1990, 船種: 5, 船長: 295, 船幅: 35.5, 船深: 11.5

検索結果:

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FIG. 10 SCREEN FOR DISPLAYING/SELECTING CANDIDATE FENDERS

SUMITOMO RUBBER INDUSTRIES LTD. - Microsoft Internet Explorer

http://www.sumitomofender.com/cgi-bin/fender/1070.pl

Result of calculation

Type of Fender : UPi  
Height : 600  
Upper height

Selection list

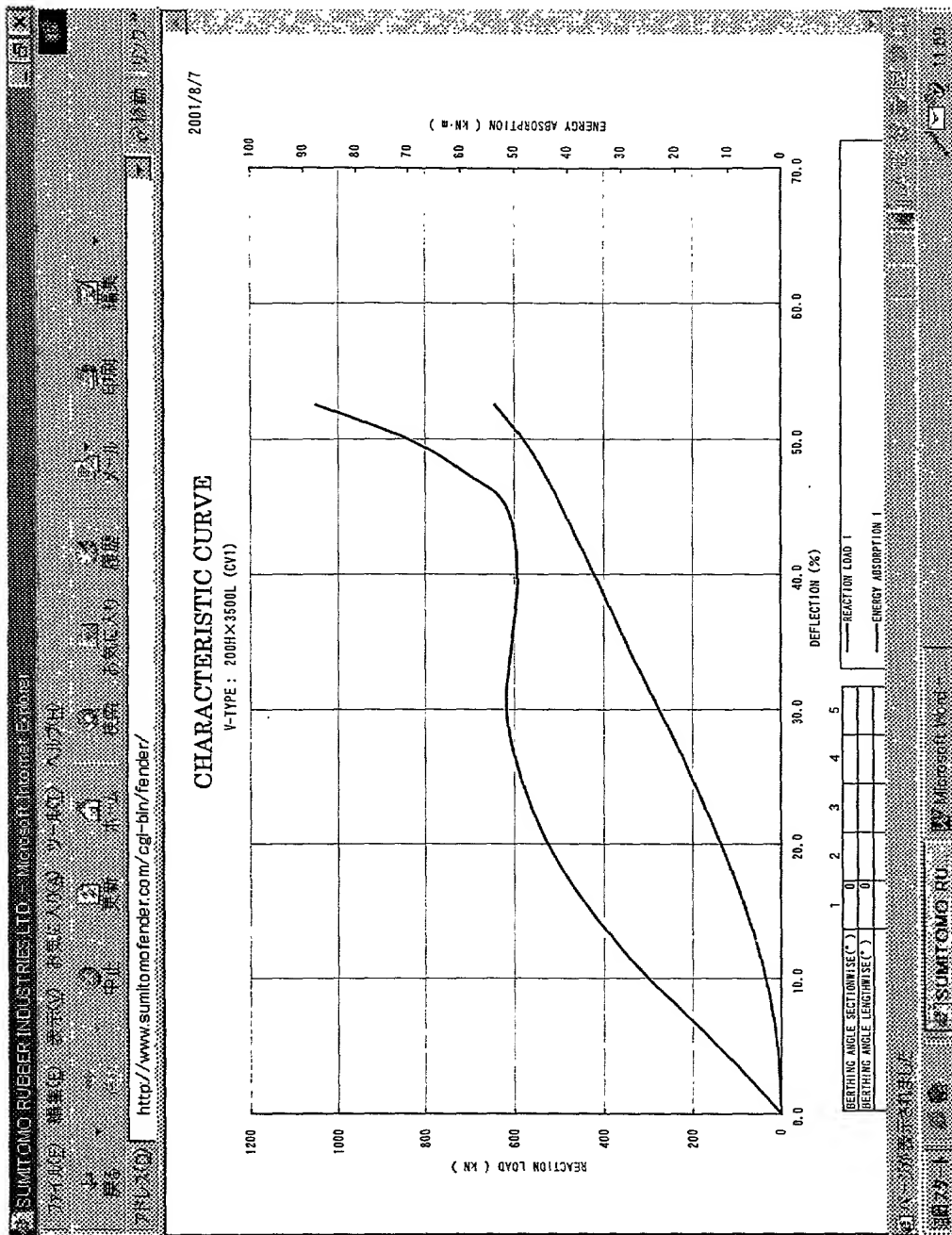
	Length	Installation	Rubber compound	Width
C	1000	V	GPS	1400
C	1000	H	GPS	1400
C	1000	V	GPA	1400
C	1000	H	GPA	1400
C	1000	V	GP0	1400
C	1000	H	GP0	1400
C	1000	V	GP1	1400
C	1000	H	GP1	1400
C	1000	V	GP2	1400
C	1000	H	GP2	1400
C	1000	V	GP3	1400
C	1000	H	GP3	1400
C	1000	V	GP4	1400
C	1000	H	GP4	1400

V: Vertical installation, H: Horizontal installation

SUMITOMO RUI Microsoft Word

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FIG. 11  
SCREEN FOR DISPLAYING PERFORMANCE CURVES AND  
DOCUMENT OF CONSIDERATION RESULTS



**FIG. 12** SCREEN FOR DISPLAYING SYSTEM ILLUSTRATION AND FOR ENTERING PARAMETERS

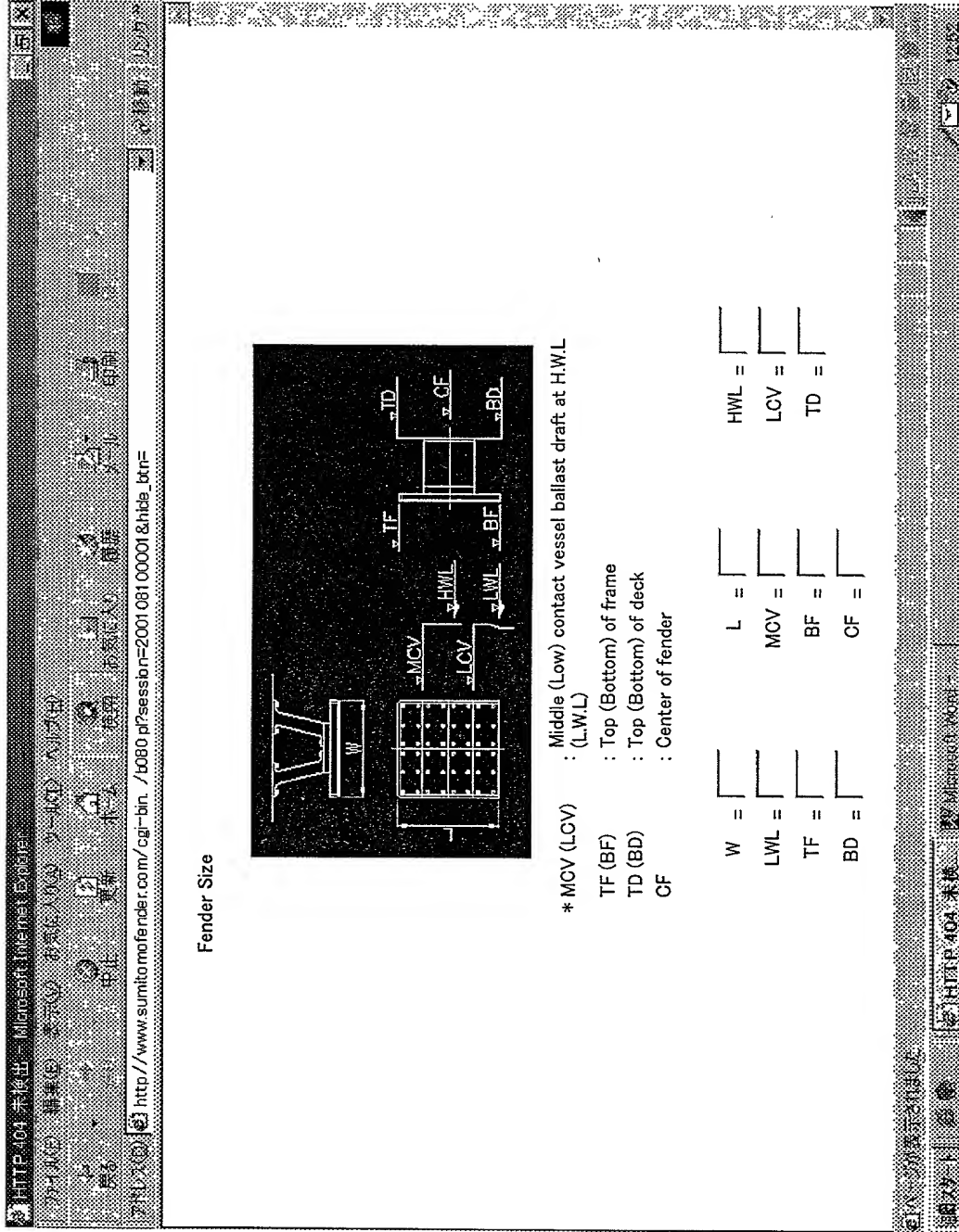


FIG. 13

## SCREEN FOR SELECTING ACCESSORY (CHAIN)

